

## ASTERION BATTERY LFP 1250

Asterion Battery LFP 1250 on lithium iron phosphate cells is designed for industrial, residential, commercial and private applications. This lithium products, due to its maintenance-free features and improved design characteristics, is ideal for working in a wide variety of fields: 12V solar and alternative energy storage, 12V UPS systems.



### General specifications

Cell type	LiFePO <sub>4</sub>
Battery control system	Built-in BMS
Bluetooth	No
Case material	ABS plastic
Dimensions (L x W x H)	228 × 138 × 215±2 mm
Weight	5.9±0.5 kg
Terminal type	LC5 (M8)
Discharge temperature	-10 °C to 50 °C
Charge temperature	0 °C to 45 °C
Storage temperature	-10 °C to 30 °C
Relative humidity	60±25 %

### Electrical specifications at 25 °C

Rated voltage	12.8 V
Rated capacity	50 Ah
Accumulated energy	640 Wh
Rated charge voltage	14.6 V
Voltage range	9.2–14.6 V
Charge voltage in standby mode	13.6–13.8 V
Charge voltage in cycle mode	14.4–14.6 V
Max charge current	50 A
Max discharge current	50 A
Cycle life (0.2C, DoD 100 %, 25 °C)	≥3,000 cycles

### Constant current discharge at 25 °C

Discharge time	1 h	1.67 h	3.33 h	4.17 h	6.67 h	8.33 h	12.5 h	16.67 h
Cut-off voltage (10.8 V)	50 A	30 A	15 A	12 A	7.5 A	6.0 A	4.0 A	3.0 A

### Constant power discharge at 25 °C

Discharge time	1 h	1.67 h	3.33 h	4.17 h	6.67 h	8.33 h	12.5 h	16.67 h
Cut-off voltage (10.8 V)	640 W	384 W	192 W	153.6 W	96.0 W	76.8 W	51.2 W	38.4 W

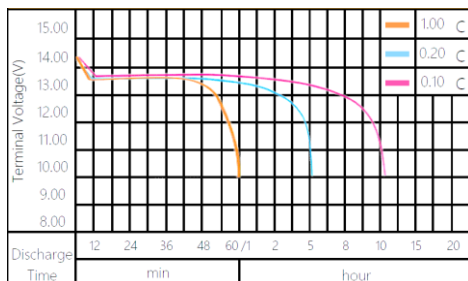
### Built-in protection

- Overvoltage / undervoltage protection
- Discharge / charge overcurrent protection
- Overtemperature protection

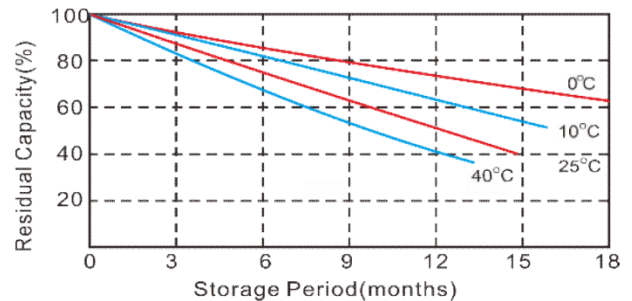
### Application

- Single only

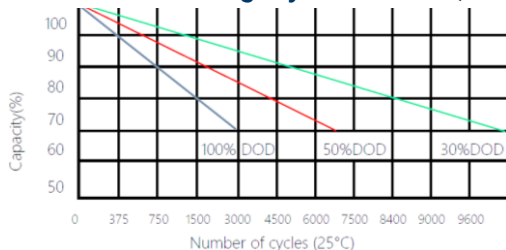
### Discharge characteristics (25°C)



### State of charge curve (0.5C, 25°C)



### Different DOD discharge cycle life curve (25°C)



### Constant voltage charging characteristics

